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PTO/SB/05 (11-00) Approved for use through 10/31/2002. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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## UTILITY PATENT APPLICATION **TRANSMITTAL**

Attomey Docket No.	Y0R9-2001-0230	(8728-50	4)
First Inventor	FRANZ		

INFORMATION RETRIEVAL WITH....

(Only for new nonprovision	nal applications under 37 CFR 1.53(b))	Expres	s Mail Label No.	EL7578	6888	33US
APPLICA	TION ELEMENTS	ADE	NOCOO TO.	ssistant Cor ox Patent A		oner for Patents
See MPEP chapter 600 con	cerning utility patent application contents.		· · · · · <del>-</del>	Vashington,		
1. X Fee Transmittal F (Submit an original and a Applicant claims see 37 CFR 1.27 3. X Specification (preferred arrangemen - Descriptive title - Cross Reference - Statement Reg - Reference to se or a computer period - Brief Summary - Brief Descriptice - Detailed Descriptice - Detailed Description - Claim(s) - Abstract of the Atlanta Summary - Brief Description - Claim(s) - Abstract of the Atlanta Summary - Brief Description - Claim(s) - Abstract of the Atlanta Summary - Brief Description - Claim(s) - Abstract of the Atlanta Summary - Brief Description - Claim(s) - Abstract of the Atlanta Summary - Brief Description - Claim(s) - Abstract of the Atlanta Summary - Brief Description - Claim(s) - Abstract of the Atlanta Summary - Brief Description - Claim(s) - Abstract of the Atlanta Summary - Brief Description - Claim(s) - Abstract of the Atlanta Summary - Brief Description - Claim(s) - Abstract of the Atlanta Summary - Brief Description - Claim(s) - Abstract of the Atlanta Summary - Brief Description - Claim(s) - Abstract of the Atlanta Summary - Brief Description - Claim(s) - Abstract of the Atlanta Summary - Brief Description - Claim(s) - Abstract of the Atlanta Summary - Brief Description - Claim(s) - Abstract of the Atlanta Summary - Brief Description - Claim(s) - Abstract of the Atlanta Summary - Brief Description - Brief	form (e.g., PTO/SB/17) duplicate for fee processing) small entity status.  [Total Pages 21 ] et of the invention se to Related Applications arding Fed sponsored R & D equence listing, a table, program listing appendix the Invention of the Invention on of the Drawings (if filed) iption  Disclosure	(if a. ( b. ) / c. / c. / 9. [ 10. [ 12. [ 13. [	CD-ROM or CD-F Computer Progra cleotide and/or Amino applicable, all necess Computer Read Specification Sequen i. CD-ROM i i. paper Statements ven ACCOMPANYING Assignment Pap 37 CFR 3.73(b) (when there is a English Translat Information Disc Statement (IDS) Preliminary Ami X Return Receipt (Should be spec Certified Copy of (if foreign priorit Request and Co	R in duplicate m (Appendia of Acid Sequenciary) lable Form (India of CD-R (2) if ying identity if ying ident	e, largox x) ence S CRF) n: 2 copie y of ab CATIC heet & X ent (if a	e table or Submission  es); or  pove copies  ON PARTS  document(s)) Power of Attorney applicable) Copies of IDS Citations  503)  nt(s) 5 U.S.C. 122
6. Application Data	1.63(d)(2) and 1.33(b). (b)(2)(B)(i). Applicant must attach form PTO/SE or its equivalent.  6. Application Data Sheet. See 37 CFR 1.76					
or in an Application Data She Continuation Prior application information: For CONTINUATION OR DIVISI Box 5b, is considered a part of						
	19. CORRESPOND	LNOL ADE				
Customer Number or Bar C	ode Label (Inserti Gustomer No. cr Attech b	recolebel in	or	Соггезроп	dence a	ddress below
Name	Frank Chau					
	1900 Hempstead Turnpike, Suite 501			<del></del>		
Address		_				
City	East Meadow	State	NY	Zip C	Code	11554
Country	USA Tel	ephone	516-357-0091	Fá	x	516-357-0092
Name (Print/Type)	Frank Chau Registration No. (Attorney/Agent) 34,136			34,136		
Signature				Date	5	/22/01

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## for FY 2001

Patent fees are subject to annual revision.

TOTAL	<b>AMOUNT</b>	OF PAYMENT	•

(\$)	946	•	U	(
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Complete if Known		
Application Number		
Filing Date	May 22, 2001	
First Named Inventor	MARTIN FRANZ	
Examiner Name		
Group Art Unit		
Attorney Docket No.	YOR9-2001-0230 (8728-504)	

	METHOD OF PAYMENT FEE CALCULATION (continued)			
	Commissioner is hereby authorized to charge	3. ADDITIONAL FEES		
1. 🛚 Ine	ated fees and credit any overpayments to:	Large Entity Small Entity	Fee Paid	
Deposit [	50-0510/IBM	Code (S) Code (S)		
Account   Number	30-0310/1011	105 130 205 65 Surcharge - late filing fee or oath		
Deposit Account Name	IBM/Yorktown Heights	127 50 227 25 Surcharge - late provisional filing fee or cover sheet		
LAJ Charge	e Any Additional Fee Required	139 130 139 130 Non-English specification		
	37 CFR 1.16 and 1.17	147 2,520 147 2,520 For filing a request for ex parte reexamination		
Applic See 3	ant claims small entity status. 7 CFR 1.27	112 920 112 920 Requesting publication of SIR prior to Examiner action		
2. Pay	rment Enclosed:	113 1,840° 113 1,840° Requesting publication of SIR after Examiner action		
L Clier	Order C	115 110 215 55 Extension for reply within first month		
	FEE CALCULATION	116 390 216 195 Extension for reply within second month		
	FILING FEE	117 890 217 445 Extension for reply within third month		
Large Ent	tity Small Entity e Fee Fee Description Fee Paid	118 1,390 218 695 Extension for reply within fourth month		
Code (\$)	Code (S)	123 1,890 228 945 Extension for reply within fifth month		
101 710	•	119 310 219 155 Notice of Appeal		
106 320		120 310 220 155 Filing a brief in support of an appeal		
107 490	T I	121 270 221 135 Request for oral hearing		
108 710		138 1,510 138 1,510 Petition to institute a public use proceeding		
114 150		140 110 240 55 Petition to revive - unavoidable		
	SUBTOTAL (1) (S) 710.00	141 1,240 241 620 Petition to revive - unintentional		
2 EVIDA	CLAIM FEES	142 1,240 242 620 Utility issue fee (or reissue)	<b> </b>	
Z. EXTIO	Fee from Extra Claims below Fee Pai	d 143 440 243 220 Design issue fee		
T. t. Claima	22 -20" = 2 x 18 = 36	144 600 244 300 Plant issue fee		
Total Claims Independent	5 · 3" = 2 × 80 =160	122 130 122 130 Petitions to the Commissioner	<del></del>	
Claims Multiple Dep	, (370)	123 50 123 50 Petitions related to provisional applications	<b>——</b>	
		126 240 126 240 Submission of Information Disclosure Stmt		
Large Ent Fee Fee	ity Small Entity • Fee Fee Fee Description	581 40 581 40 Recording each patent assignment per property (times number of properties)	40.00	
Code (\$) 103 18	and a customatic avenue of 20	146 710 246 355 Filing a submission after final rejection (37 CFR § 1.129(a))		
102 80		110 710 249 355 For each additional invention to be		
104 270		examined (37 CFR § 1.129(b))		
109 80	209 40 "Reissue independent claims over original patent	179 710 279 355 Request for Continued Examination (RCE) 169 900 169 900 Request for expedited examination		
110 18	Reissue claims in excess of 20 and over original patent	of a design application		
	SUBTOTAL (2) (\$) 196.0	Other fee (specify)	40.00	
	308101AL (2)	Reduced by Basic Filing Fee Paid SUBTOTAL (3)	40.00	
••or num	ber previously paid. if greater; For Reissues, see above			
	Complete (if applicable)			

			Complete (#	applicable)
SUBMITTED BY		Registration No. 24 136	Telephone	(516) 357-0091
Name (Print/Type)	Frank Chau	Registration No. 34,136	7,000	, , ,
	A		Date	5/22/0/
Signature				

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Assistant Commissioner fo Washington, D.C. 20231 Sir:

Transmitted herewith for filing .

٥ سر يخسخه TTORNEY DOCKET: YOR9-2000-0230 (8728-504)

ite: <u>May 22, 2001</u> xpress Mail Label

757868883US

Date of Deposit: Ma, 18, 2001

05-23-0

.ent Application of:

Inventors:

Martin Franz, Jeffrey S. McCarley

For:

INFORMATION RETRIEVAL WITH NON-NEGATIVE MATRIX FACTORIZATION

Enclosed are: [X] 13 sheets of specification; [X] 1 sheet(s) of Abstract; [X] 7 sheet(s) of claims; [X] 2 sheet(s) of drawing(s);

- An assignment of the invention to: International Business Machines Corporation, Armonk, [X] New York, with Recordation Form.
- Declaration and Power of Attorney. [X]
- \_ application, from which priority [] A certified copy of a under Title 35 USC §119 is claimed.
- Associate Power of Attorney. []

The filing fee has been calculated as shown below:

(Col. 1) (Col. 2) OTHER THAN A SMALL ENTITY

FOR:	NO. FILED	NO. EXTRA		
BASIC FEE				
TOTAL CLAIMS	22 -20 =	2		
INDEP CLAIMS	5 -3 =	2		
MULTIPLE DEPENDENT CLAIMS PRESENTED				

FOR:	NO. FILED	NO. EXTRA	RA
BASIC FEE			
TOTAL CLAIMS	22 -20 =	2	x \$:
INDEP CLAIMS	5 -3 =	2	x \$8
MULTIPLE DE	PENDENT CLAI	MS	+ 2
if the differe	nce in Col	l is less	TOTAL

If the difference in Col. 1 is less than zero, enter "0" in Col. 2.

RATE	FEE
	\$710.00
X \$18 = -	36.00
X \$80 =	160.00
+ 270 =	
TOTAL	\$ 906.00

- A check in the amount of \$\_\_\_\_ to cover the [] filing fee(s), [] recording fee is enclosed. ₹
- Please charge my Deposit Account No. 50-0510/IBM (Yorktown Heights) in the [X] amount of \$906.00. UT
- [x] The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to
- Deposit Account No. 50-0510/IBM (Yorktown Heights). A duplicate copy of this sheet is enclosed. ₩
  - Any additional filing fees required under 37 CFR 1.16. [X]
  - Any patent application processing fees under 35 CFR 1.17. [X]

Respectfully submitted,

By:

Frank Chau

Régistration No. 34,136

Please address all correspondence to:

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IBM Corporation

Intellectual Property Law Dept.

P.O. Box 218

Yorktown Heights, NY 10598

CERTIFICATION UNDER 37 C.F.R. §1.10

I hereby certify that this Application transmittal and documents referred to as enclosed are being deposited with the United States Postal Service on this date May 22, 2001 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EL757868883US addressed to: Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

Frank Chau